

Title (en)

LAMINATED ULTRA-HIGH VACUUM FORMING DEVICE

Title (de)

IN SCHICHTEN ANGEORDNETE ULTRAHOCHVAKUUMPUMPE

Title (fr)

DISPOSITIF STRATIFIÉ D'ÉTABLISSEMENT DE VIDE ULTRA-POUSSÉ

Publication

EP 3163599 B1 20201209 (EN)

Application

EP 15814570 A 20150421

Priority

- JP 2014134301 A 20140630
- JP 2015062082 W 20150421

Abstract (en)

[origin: EP3163599A1] Provided is an ultra-high vacuum forming device containing an ion pump having a compact size in the central axis direction. The ultra-high vacuum forming device (1) is provided with at least one ion pump (100). The ion pump (100) is provided with: a casing (110) having at least one opening (111, 112); a board-shaped electrode group (120) formed by means of a central opening (120a) being formed along a predetermined central axis (C) disposed within the casing (110), and a plurality of electrodes (121) being joined with spaces therebetween; a pair of board-shaped electrodes (131, 132) having a different polarity than that of the electrode group (120) and that are disposed at positions sandwiching both sides of the electrode group (120) within the casing (110); and a pair of board-shaped magnets (141, 142) disposed at positions sandwiching both sides of the pair of board-shaped electrodes (131, 132).

IPC 8 full level

H01J 41/18 (2006.01); **H01J 41/12** (2006.01); **H01J 41/20** (2006.01)

CPC (source: EP US)

F04B 37/14 (2013.01 - US); **H01J 41/12** (2013.01 - EP US); **H01J 41/18** (2013.01 - EP US); **H01J 41/20** (2013.01 - EP US)

Citation (examination)

FIRPO G ET AL: "New getter pump for ultrahigh vacuum systems and transportable enclosure", REVIEW OF SCIENTIFIC INSTRUMENTS, AIP, MELVILLE, NY, US, vol. 75, no. 11, 1 November 2004 (2004-11-01), pages 4828 - 4832, XP012071890, ISSN: 0034-6748, DOI: 10.1063/1.1809303

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DOCDB simple family (publication)

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